

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	496	438/640.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L2	695	438/666.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L3	765	438/701.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L4	307	438/713.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L5	898	438/978.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L6	287	438/for.458.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L7	371	438/for.492.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L8	1209	438/for.355.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L9	270	438/353.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09

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L10	4634	438/396.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L11	788	438/386.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L12	336	438/387.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
L13	2743	438/637.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:09
L14	7847	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:09
L21	27	("3717852"   "4145803"   "4692787"   "4800176"   "5095362"   "5100827"   "5120679"   "5166556"   "5171715"   "5196724"   "5233217"   "5242851"   "5248632"   "5272101"   "5290734"   "5300456"   "5322812").PN. OR ("5663091").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:18
L22	27	("3717852"   "4145803"   "4692787"   "4800176"   "5095362"   "5100827"   "5120679"   "5166556"   "5171715"   "5196724"   "5233217"   "5242851"   "5248632"   "5272101"   "5290734"   "5300456"   "5322812").PN. OR ("5663091").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:20
L33	2587	antifuse	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:20
L34	346	33 and (smooth taper tapered angle)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:27
L35	5	("20010020713"   "20030211731"   "20040106266"   "5063177"   "5451551").PN. OR ("6894364"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:23

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L36	28	("3717852"   "4145803"   "4692787"   "4748490"   "4800176"   "5095362"   "5100827"   "5120679"   "5130777"   "5166556"   "5171715"   "5196724"   "5233217"   "5242851"   "5248632"   "5272101"   "5290734"   "5300456"   "5322812").PN. OR ("5550404").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:27
L37	1808	capacitor near5 interconnect	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:27
L38	411	37 and (smooth taper tapered angle)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:27
S19	764095	"438"/\$.ccls. or semic or ic or "257"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 14:48
S20	472	438/640.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:45
S21	657	438/666.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:46
S22	750	438/701.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:46
S23	293	438/713.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 08:18
S24	893	438/978.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:46
S25	287	438/for.458.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:46

## EAST Search History

S26	371	438/for.492.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:46
S27	1209	438/for.355.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:46
S28	268	438/353.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/21 13:11
S29	4498	438/396.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 09:39
S30	728	438/386.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:48
S31	306	438/387.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 07:48
S32	1	("6660580").URPN.	USPAT	OR	OFF	2006/03/17 07:52
S33	14	("20020037624"   "20020061604"   "20020102791"   "20020165615"   "6004856"   "6177284"   "6180447"   "6239461"   "6284595"   "6297527"   "6421223"   "6660580"   "6682969").PN. OR ("6831323"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 07:57
S34	53	("5063169"   "5155573"   "5169680"   "5185689"   "5191510"   "5196909"   "5300799"   "5381302"   "5439840"   "5521418"   "5576928"   "5624865"   "5627094"   "5658818"   "5674787"   "5696017"   "5717250"   "5757612"   "5776825"   "5789320"   "5793600"   "5821141"   "5851876"   "5932907"   "5976928"   "6069391"   "6188120").PN. OR ("6344413").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 08:02

## EAST Search History

S35	2538	438/637.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 08:03
S36	7366	S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S35	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:09
S37	444	S36 and ((taper angle) with (etch trench via opening))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 08:04
S38	679	S36 and ((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 09:40
S39	27	("3717852"   "4145803"   "4692787"   "4800176"   "5095362"   "5100827"   "5120679"   "5166556"   "5171715"   "5196724"   "5233217"   "5242851"   "5248632"   "5272101"   "5290734"   "5300456"   "5322812").PN. OR ("5663091").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 08:33
S40	17	capacitor and "broken wire" with electrode	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:06
S41	5351	"leakage current" with capacitor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:07
S42	42	S41 and (overhang overhung)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 08:38
S43	875	S41 and (taper\$2 angle\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 08:38
S44	125	S41 and ((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:06
S45	227042	((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:05
S46	6798	((taper\$2 angle\$2) with (etch trench via opening)) and capacitor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:06
S47	1	("6239461").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:07

## EAST Search History

S48	123	S41 and ((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:07
S49	18	capacitor and "broken wire" with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:07
S50	7350	"leakage current" with capacitor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:07
S51	125	S50 and ((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:08
S52	2	S51 not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 09:08
S53	0	"10971022".pn. "10855562".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 14:42
S54	24	("20020163026" "20030085420" "20030136996" "20030178728" "20030227044" "20030227045" "20050040448" "20050161720" "20050253179" "6423998" "6768154" "6784069").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 14:46
S55	8	("20030201537" "5180689" "5203957" "6277757").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 14:47
S56	2	"20040166668".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 14:48
S57	0	("2004/0166668").URPN.	USPAT	OR	OFF	2006/03/19 14:48
S58	0	("20040166668").URPN.	USPAT	OR	OFF	2006/03/19 14:49

## EAST Search History

S59	187	(trench channel via opening) with capacitor with (taper tapered angle obtuse)	USPAT	OR	OFF	2006/03/19 14:49
S60	4	("4200968"   "4364074"   "4502208"   "4763180").PN. OR ("6687114").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/19 14:50
S61	2536	438/253.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/21 13:11
S62	11	"5354386"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 16:31
S63	2	"5354386".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 16:31
S64	10	("4451326"   "4698132").PN. OR ("5354386").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/28 16:40
S65	256	smooth with taper with (via contact opening)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 08:24
S66	4	("6051859" "6399495").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 08:18
S67	812	(smooth with (via contact opening)) and (taper with (via contact opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 08:25
S68	45	("4764245"   "4807016"   "4814041"   "4832788"   "4857141"   "4889588"   "4902377"   "4908333"   "5155064"   "5180689"   "5203957"   "5219791"   "5294296"   "5320981").PN. OR ("5453403").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 08:33
S69	4506	438/396.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 09:41

## EAST Search History

S70	39	S69 and mask and taper	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 09:51
S71	26	S69 and mask and angled	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 09:52
S72	730	438/386.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 09:52
S73	21	S72 and mask and angled	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 09:52